QC ABSTRACT

NAME OF WORK: Improvements to Roads and drain at Sampigehalli and Royal Enclave in Ward No.08 Jakkur.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (230mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	10 sets /301-350 cum	348.64	20	20

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-06-27-29** **Date: 16-03-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP,
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drain at Sampigehalli and Royal Enclave in Ward No.08 Jakkur.
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, No:2/2,1st Cross, B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/157/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-03-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	14-03-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	2.55	_
2	Finess by Air permeablity method (m^2/kg,Min)	287.5	225m^2/kg, Min
3	Density (gm/cc)	3.12	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-06-27-29** **Date: 11-04-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drain at Sampigehalli and Royal Enclave in Ward No.08 Jakkur.
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, No:2/2,1st Cross, B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/157/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-03-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	14-03-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-06-27-29** **Date: 16-03-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drain at Sampigehalli and Royal Enclave in Ward No.08 Jakkur.
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, No:2/2,1st Cross, B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/157/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	13-03-23
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	13-03-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	333	333	2.2	97.8	90-100
3	20 mm	7436	7769	51.8	48.2	30-70
4	10 mm	5169	12938	86.3	13.7	10-35
5	4.75 mm	1688	14626	97.5	2.5	0-5
6	Pan	374	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-06-27-29** **Date: 16-03-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	7.5	
3	Specific Gravity	2.61	_
4	Bulk Density(Loose) (Kg/l)	1.38	_
5	Bulk Density(Compacted) (Kg/l)	1.42	_
6	Water Absorption(%)	0.25	_

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-06-27-29** **Date: 15-03-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drain at Sampigehalli and Royal Enclave in Ward No.08 Jakkur.
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, No:2/2,1st Cross, B.S.A Road, Frezer Town, Bangalore-560005
Customer Reference	:	BBMP/EE/BTP/WO/157/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-03-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	13-03-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	267	267	5.3	94.7	90-100
3	10 mm	2781	3048	61.0	39.0	25-55
4	4.75 mm	1551	4599	92.0	8.0	0-10
5	Pan	401	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-06-27-29** **Date: 15-03-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2023-06-27-29** **Date: 15-03-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drain at Sampigehalli and Royal Enclave in Ward No.08 Jakkur.
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, No:2/2,1st Cross, B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/157/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-03-23
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	13-03-23
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	32	32	3.2	96.8	90-100	90-100	90-100	95-100
3	2.36 mm	58	90	9.0	91.0	60-95	75-100	85-100	95-100
4	1.18 mm	240	330	33.0	67.0	30-70	55-90	75-100	90-100
5	600 micron	215	545	54.5	45.5	15-34	35-59	60-79	80-100
6	300 micron	203	748	74.8	25.2	5-20	8-30	12-40	15-50
7	150 micron	191	939	93.9	6.1	0-10	0-10	0-10	0-15
8	Pan	61	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-06-27-29** **Date: 15-03-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2023-06-27-29** **Date: 14-03-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drain at Sampigehalli and Royal Enclave in Ward No.08 Jakkur.
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, No:2/2,1st Cross, B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/157/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-03-23
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	13-03-23

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe550	8	0.391	569	655	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe550	10	0.616	561	677	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe550	12	0.888	574	671	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Date: 25-03-23

Lab ID	:	**CP-2023-06-27-29**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drain at Sampigehalli and Royal Enclave in Ward No.08 Jakkur.
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, No:2/2,1st Cross, B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/157/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-03-23
Sample Type /Size	:	Precast Cover Slab- 100mm thickness
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	21/03/2023

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.48	100.48	1.123	4714	100.2	21.3	19.8	24.7
2	Cover Slab-2	77.49	100.52	1.131	4715	100.1	21.2	19.7	24.7
3	Cover Slab-3	77.51	100.51	1.129	4718	101.6	21.5	20.0	25.0

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TEST REPORT OF PRECAST COVER SLAB

Date: 25-03-23

Lab ID	:	**CP-2023-06-27-29**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drain at Sampigehalli and Royal Enclave in Ward No.08 Jakkur.
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, No:2/2,1st Cross, B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/157/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-03-23
Sample Type /Size	:	Precast Cover Slab- 230mm thickness
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	21/03/2023

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.49	230.51	2.819	4715	101.4	21.5	20.0	25.0
2	Cover Slab-2	77.48	230.49	2.823	4714	100.6	21.3	19.8	24.8
3	Cover Slab-3	77.50	230.48	2.811	4716	101.1	21.4	19.9	24.9

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25/03/2023

Lab ID	:	**CP-2023-06-27-29**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drain at Sampigehalli and Royal Enclave in Ward No.08 Jakkur.
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, No:2/2,1st Cross, B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/157/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-03-23
Customer ID	:	Drain Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	18/03/2023	25/03/2023	150.96 X 151.91 X 149.58	22933	8.809	419.2	18.3	18.3
2	Drain Bottom Raft Concrete	M20	18/03/2023	25/03/2023	150.65 X 151.88 X 149.95	22880	8.265	416.1	18.2	
3	Drain Bottom Raft Concrete	M20	18/03/2023	25/03/2023	150.40 X 151.92 X 149.08	22849	8.797	421.8	18.5	

* The results obtained are satisfactory as per standard requirements.

Note:

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-06-27-29** **Date: 15/04/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drain at Sampigehalli and Royal Enclave in Ward No.08 Jakkur.
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, No:2/2,1st Cross, B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/157/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-03-23
Customer ID	:	Drain Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	18/03/2023	15/04/2023	149.39 X 149.13 X 150.20	22278	8.385	530.1	23.8	23.5
2	Drain Bottom Raft Concrete	M20	18/03/2023	15/04/2023	151.94 X 149.87 X 150.50	22770	8.167	522.4	22.9	
3	Drain Bottom Raft Concrete	M20	18/03/2023	15/04/2023	149.10 X 150.70 X 151.48	22469	8.750	536.2	23.9	

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/03/2023

Lab ID	:	**CP-2023-06-27-29**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drain at Sampigehalli and Royal Enclave in Ward No.08 Jakkur.
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, No:2/2,1st Cross, B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/157/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-03-23
Customer ID	:	Drain Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	20/03/2023	27/03/2023	149.59 X 150.65 X 150.65	22536	8.568	409.2	18.2	18.4
2	Drain Bottom Raft Concrete	M20	20/03/2023	27/03/2023	149.49 X 151.10 X 149.50	22589	8.917	415.2	18.4	
3	Drain Bottom Raft Concrete	M20	20/03/2023	27/03/2023	149.25 X 149.51 X 151.39	22314	8.588	415.5	18.6	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-06-27-29** **Date: 17/04/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drain at Sampigehalli and Royal Enclave in Ward No.08 Jakkur.
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, No:2/2,1st Cross, B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/157/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-03-23
Customer ID	:	Drain Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	20/03/2023	17/04/2023	151.34 X 149.15 X 150.50	22574	8.450	529.4	23.5	23.0
2	Drain Bottom Raft Concrete	M20	20/03/2023	17/04/2023	151.77 X 149.04 X 151.10	22619	8.401	500.1	22.1	
3	Drain Bottom Raft Concrete	M20	20/03/2023	17/04/2023	151.38 X 150.86 X 149.56	22836	8.296	537.7	23.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-06-27-29** **Date: 27/03/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drain at Sampigehalli and Royal Enclave in Ward No.08 Jakkur.
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, No:2/2,1st Cross, B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/157/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-03-23
Customer ID	:	Drain Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Bottom Raft Concrete	M20	20/03/2023	27/03/2023	149.79 X 151.96 X 151.02	22762	8.389	412.7	18.1	18.2
2	Drain Bottom Raft Concrete	M20	20/03/2023	27/03/2023	151.53 X 150.63 X 150.11	22824	8.992	411.8	18.0	
3	Drain Bottom Raft Concrete	M20	20/03/2023	27/03/2023	151.40 X 150.41 X 149.81	22772	8.143	417.7	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-06-27-29** **Date: 17/04/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drain at Sampigehalli and Royal Enclave in Ward No.08 Jakkur.
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, No:2/2,1st Cross, B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/157/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-03-23
Customer ID	:	Drain Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	20/03/2023	17/04/2023	149.26 X 150.38 X 151.88	22445	8.492	526.8	23.5	23.3
2	Drain Bottom Raft Concrete	M20	20/03/2023	17/04/2023	149.91 X 151.45 X 150.68	22705	8.831	513.9	22.6	
3	Drain Bottom Raft Concrete	M20	20/03/2023	17/04/2023	151.29 X 150.29 X 149.80	22737	8.564	540.0	23.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-06-27-29** **Date: 28/03/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drain at Sampigehalli and Royal Enclave in Ward No.08 Jakkur.
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, No:2/2,1st Cross, B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/157/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-03-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	21/03/2023	28/03/2023	151.42 X 150.61 X 150.04	22806	8.958	411.0	18.0	18.4
2	Drain Side Wall Concrete	M20	21/03/2023	28/03/2023	150.57 X 151.00 X 151.92	22736	8.943	417.5	18.4	
3	Drain Side Wall Concrete	M20	21/03/2023	28/03/2023	149.60 X 150.17 X 151.09	22466	8.778	423.4	18.8	

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Quality Manager

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-06-27-29** **Date: 18/04/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drain at Sampigehalli and Royal Enclave in Ward No.08 Jakkur.
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, No:2/2,1st Cross, B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/157/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-03-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	21/03/2023	18/04/2023	150.27 X 151.97 X 149.15	22837	8.574	543.4	23.8	23.3
2	Drain Side Wall Concrete	M20	21/03/2023	18/04/2023	150.93 X 149.89 X 149.61	22624	8.988	517.8	22.9	
3	Drain Side Wall Concrete	M20	21/03/2023	18/04/2023	151.71 X 151.43 X 151.89	22973	8.858	535.3	23.3	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-06-27-29**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drain at Sampigehalli and Royal Enclave in Ward No.08 Jakkur.
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, No:2/2,1st Cross, B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/157/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-03-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date: 30/03/2023

Date of test : 30/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/03/2023	30/03/2023	150.99 X 150.41 X 150.33	22709	8.753	420.6	18.5	18.3
2	Drain Side Wall Concrete	M20	23/03/2023	30/03/2023	149.84 X 151.44 X 151.62	22692	8.181	408.8	18.0	
3	Drain Side Wall Concrete	M20	23/03/2023	30/03/2023	151.95 X 150.48 X 151.22	22866	8.216	422.7	18.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/04/2023

Lab ID	:	**CP-2023-06-27-29**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drain at Sampigehalli and Royal Enclave in Ward No.08 Jakkur.
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, No:2/2,1st Cross, B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/157/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-03-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/03/2023	20/04/2023	150.81 X 150.93 X 151.70	22761	8.440	544.0	23.9	23.1
2	Drain Side Wall Concrete	M20	23/03/2023	20/04/2023	150.40 X 149.49 X 149.60	22483	8.197	502.5	22.4	
3	Drain Side Wall Concrete	M20	23/03/2023	20/04/2023	149.11 X 151.42 X 151.23	22579	8.798	520.1	23.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-06-27-29** **Date: 30/03/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drain at Sampigehalli and Royal Enclave in Ward No.08 Jakkur.
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, No:2/2,1st Cross, B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/157/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-03-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/03/2023	30/03/2023	149.98 X 150.27 X 149.19	22537	8.148	417.7	18.5	18.5
2	Drain Side Wall Concrete	M20	23/03/2023	30/03/2023	150.87 X 151.47 X 150.55	22854	8.508	418.1	18.3	
3	Drain Side Wall Concrete	M20	23/03/2023	30/03/2023	151.36 X 149.69 X 149.72	22657	8.928	424.2	18.7	

* The results obtained are satisfactory as per standard requirements.

Note:

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Samples will be disposed after 30 days from the date of issue of test certificate

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R KARTHIK RECHAN
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Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 30/03/2023

Lab ID	:	**CP-2023-06-27-29**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drain at Sampigehalli and Royal Enclave in Ward No.08 Jakkur.
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, No:2/2,1st Cross, B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/157/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-03-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/03/2023	30/03/2023	149.98 X 150.27 X 149.19	22537	8.148	417.7	18.5	18.5
2	Drain Side Wall Concrete	M20	23/03/2023	30/03/2023	150.87 X 151.47 X 150.55	22854	8.508	418.1	18.3	
3	Drain Side Wall Concrete	M20	23/03/2023	30/03/2023	151.36 X 149.69 X 149.72	22657	8.928	424.2	18.7	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/04/2023

Lab ID	:	**CP-2023-06-27-29**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drain at Sampigehalli and Royal Enclave in Ward No.08 Jakkur.
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, No:2/2,1st Cross, B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/157/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-03-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/03/2023	20/04/2023	150.57 X 149.68 X 149.57	22538	8.245	533.8	23.7	23.4
2	Drain Side Wall Concrete	M20	23/03/2023	20/04/2023	151.03 X 150.18 X 150.16	22683	8.440	520.7	23.0	
3	Drain Side Wall Concrete	M20	23/03/2023	20/04/2023	151.08 X 150.62 X 149.06	22756	8.303	538.4	23.7	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-06-27-29** **Date: 03/04/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drain at Sampigehalli and Royal Enclave in Ward No.08 Jakkur.
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, No:2/2,1st Cross, B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/157/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-03-23
Customer ID	:	Culvert Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Culvert Bottom Raft Concrete	M20	27/03/2023	03/04/2023	151.43 X 151.31 X 149.45	22913	8.388	418.8	18.3	18.5
2	Culvert Bottom Raft Concrete	M20	27/03/2023	03/04/2023	149.74 X 149.90 X 151.51	22446	8.933	424.7	18.9	
3	Culvert Bottom Raft Concrete	M20	27/03/2023	03/04/2023	149.32 X 149.10 X 149.73	22264	8.685	406.4	18.3	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/04/2023

Lab ID	:	**CP-2023-06-27-29**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drain at Sampigehalli and Royal Enclave in Ward No.08 Jakkur.
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, No:2/2,1st Cross, B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/157/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-03-23
Customer ID	:	Culvert Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Culvert Bottom Raft Concrete	M20	27/03/2023	24/04/2023	150.42 X 151.74 X 149.51	22824	8.361	538.1	23.6	23.2
2	Culvert Bottom Raft Concrete	M20	27/03/2023	24/04/2023	149.44 X 150.44 X 150.19	22481	8.541	516.1	23.0	
3	Culvert Bottom Raft Concrete	M20	27/03/2023	24/04/2023	151.28 X 149.36 X 149.60	22596	8.477	520.0	23.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-06-27-29** **Date: 03/04/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and drain at Sampigehalli and Royal Enclave in Ward No.08 Jakkur.

Agency : M/s S.S Road Developers, Prop.A.S Mani, No:2/2,1st Cross, B.S.A Road, Frezer Town, Bangalore-560005

Customer's Reference : BBMP/EE/BTP/WO/157/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-03-23

Customer ID : Culvert Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft Concrete	M20	27/03/2023	03/04/2023	151.96 X 151.27 X 151.45	22987	8.650	436.5	19.0	18.7
2	Culvert Bottom Raft Concrete	M20	27/03/2023	03/04/2023	151.95 X 149.65 X 151.58	22740	8.379	431.3	19.0	
3	Culvert Bottom Raft Concrete	M20	27/03/2023	03/04/2023	150.97 X 149.96 X 149.68	22639	8.374	410.8	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-06-27-29** **Date: 24/04/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and drain at Sampigehalli and Royal Enclave in Ward No.08 Jakkur.

Agency : M/s S.S Road Developers, Prop.A.S Mani, No:2/2,1st Cross, B.S.A Road, Frezer Town, Bangalore-560005

Customer's Reference : BBMP/EE/BTP/WO/157/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-03-23

Customer ID : Culvert Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft Concrete	M20	27/03/2023	24/04/2023	149.56 X 149.40 X 151.54	22343	8.103	523.8	23.4	23.2
2	Culvert Bottom Raft Concrete	M20	27/03/2023	24/04/2023	150.43 X 151.73 X 149.64	22824	8.215	513.3	22.5	
3	Culvert Bottom Raft Concrete	M20	27/03/2023	24/04/2023	150.31 X 151.06 X 151.32	22706	8.725	534.4	23.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/04/2023

Lab ID	:	CP-2023-06-27-29
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drain at Sampigehalli and Royal Enclave in Ward No.08 Jakkur.
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, No:2/2,1st Cross, B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/157/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-04-23
Customer ID	:	Culvert Side wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side wall Concrete	M20	30/03/2023	06/04/2023	150.34 X 149.52 X 151.16	22479	8.672	423.3	18.8	18.6
2	Culvert Side wall Concrete	M20	30/03/2023	06/04/2023	149.21 X 150.47 X 149.32	22452	8.229	420.0	18.7	
3	Culvert Side wall Concrete	M20	30/03/2023	06/04/2023	150.79 X 149.59 X 150.42	22557	8.549	411.4	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-06-27-29** **Date: 27/04/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drain at Sampigehalli and Royal Enclave in Ward No.08 Jakkur.
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, No:2/2,1st Cross, B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/157/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-04-23
Customer ID	:	Culvert Side wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side wall Concrete	M20	30/03/2023	27/04/2023	149.25 X 151.52 X 151.76	22615	8.525	542.5	24.0	23.2
2	Culvert Side wall Concrete	M20	30/03/2023	27/04/2023	149.69 X 149.21 X 151.41	22336	8.143	491.6	22.0	
3	Culvert Side wall Concrete	M20	30/03/2023	27/04/2023	150.84 X 151.15 X 151.78	22800	8.128	535.4	23.5	

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Lab ID	:	**CP-2023-06-27-29** **Date: 06/04/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drain at Sampigehalli and Royal Enclave in Ward No.08 Jakkur.
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, No:2/2,1st Cross, B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/157/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-04-23
Customer ID	:	Culvert Side wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side wall Concrete	M20	30/03/2023	06/04/2023	149.22 X 150.15 X 151.02	22406	8.645	420.4	18.8	18.7
2	Culvert Side wall Concrete	M20	30/03/2023	06/04/2023	150.79 X 149.82 X 149.12	22592	8.548	417.6	18.5	
3	Culvert Side wall Concrete	M20	30/03/2023	06/04/2023	149.41 X 150.03 X 149.16	22416	8.873	424.8	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

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Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drain at Sampigehalli and Royal Enclave in Ward No.08 Jakkur.
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, No:2/2,1st Cross, B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/157/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-04-23
Customer ID	:	Culvert Side wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side wall Concrete	M20	30/03/2023	27/04/2023	149.73 X 151.50 X 150.18	22683	8.714	542.1	23.9	23.1
2	Culvert Side wall Concrete	M20	30/03/2023	27/04/2023	150.52 X 151.13 X 149.86	22748	8.295	505.7	22.2	
3	Culvert Side wall Concrete	M20	30/03/2023	27/04/2023	151.71 X 149.77 X 151.83	22722	8.247	524.1	23.1	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Agency/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

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